



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/777,423
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	February 12, 2004
				First Named Inventor	Howard R. Petty
				Art Unit	3737
				Examiner Name	Not Yet Assigned
Sheet	1	of	7	Attorney Docket Number	30275/39376

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		
BR	A1	4,569,354	02/11/1986	Shapiro et al.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
BR	C1	Abiko et al., Relationship between autofluorescence and advanced glycation end products in diabetic lenses. 1999. Exp Eye Res. 68:361-6 (Academic Press, Asahikawa, Japan).				
	C2	Abler A.S., Photic injury triggers apoptosis of photoreceptor cells. 1996. Res Commun Mol Pathol Pharmacol. 92:177-89 (PJD Publications, Westbury, NY, USA).				
	C3	Adachi et al., Aberrant neutrophil trafficking and metabolic oscillations in severe pyoderma gangrenosum. 1998. J Invest Dermatol. 111:259-68 (Detroit, MI, USA).				
	C4	Adachi et al., Amplitude and frequency modulation of metabolic signals in leukocytes: synergistic role in interferon-γ and interleukin-6-mediated cell activation. 1999. J Immunol. 163:4367-74 (Bethesda, MD, USA).				
	C5	Amit et al., Complement deposition on immune complexes diminishes the frequencies of metabolic, proteolytic and superoxide oscillations of migrating neutrophils. 1999. Cell Immunol. 194:47-53 (Academic Press, Detroit, MI, USA).				
	C6	Berkelaar et al., Axotomy results in delayed death and apoptosis of retinal ganglion cells in adult rats. 1994. J Neurosci. 14:4368-74 (Society for Neuroscience, Montreal, Quebec, Canada).				
	C7	Brunk et al., Lipofuscin: mechanisms of age-related accumulation and influence on cell function. 2002. Free Radical Biol Med. 33:611-9 (Elsevier Science, Inc., Linköping, Sweden, printed in USA).				
	C8	Buchi E.R., Cell death in rat retina after pressure-induced ischaemia-reperfusion insult: electron microscopic study II. Outer nuclear layer. 1992. Jpn J Ophthalmol. 36:62-8 (Tokyo, Japan).				
	C9	Buchi E.R., Cell death in the rat retina after a pressure-induced ischaemia-reperfusion insult: an electron microscopic study I. Ganglion cell layer and inner nuclear layer. 1992. Exp Eye Res. 55:605-13 (Academic Press, Rockville, MD, USA).				
	C10	Chader G.J., Animal models in research on retinal degenerations: past progress and future hope. Vision Res. 42:393-9 (Elsevier Science Ltd., Owings Mills, MD, USA).				
	C11	Chance et al., Intrinsic fluorescence emission from the cornea at low temperatures: evidence of mitochondrial signals and their differing redox states in epithelial and endothelial sides. 1978. Exp Eye Res. 26:111-7 (Philadelphia, PA, USA).				
	C12	Chang et al., Apoptosis: final common pathway of photoreceptor death in rd, rds and rhodopsin mutant mice. 1993. Neuron. 11:595-605 (Cell Press, Newton, MA, USA).				
	C13	Chiou et al., Apoptosis of human retina and retinal pigment cells induced by human cytomegalovirus infection. 2002. Ophthalmic Res. 34:77-82 (S. Karger AG, Basel, Switzerland).				
	C14	Coremans et al., (Semi-)quantitative analysis of reduced nicotinamide adenine dinucleotide fluorescence images of blood-perfused rat heart. 1997. Biophys J. 72:1849-60 (The Biophysical Society, Bethesda, MD, USA).				
BR	C15	Danielson et al., Cells bearing mutations causing Leber's hereditary optic neuropathy are sensitized to Fas-induced apoptosis. 2002. J Biol Chem. 277:5810-5 (The American Society for Biochemistry and Molecular Biology, Inc., Rockville, MD, USA).				

Examiner Signature	<i>Barischi</i>	Date Considered	12-18-06
-----------------------	-----------------	--------------------	----------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/777,423		
		Filing Date	February 12, 2004		
		First Named Inventor	Howard R. Petty		
		Art Unit	3737		
		Examiner Name	Not Yet Assigned		
Sheet	2	of	7	Attorney Docket Number	30275/39376

BR	C16	Delori et al., In vivo fluorescence of the ocular fundus exhibits retinal pigment epithelium lipofuscin characteristics. 1995. Invest Ophthalmol Vis Sci. 36:716-29 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C17	Delori et al., Autofluorescence distribution associated with drusen in age-related macular degeneration. 2000. Invest Ophthalmol Vis Sci. 41:496-504 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C18	Delori et al., Age-related accumulation and spatial distribution of lipofuscin in RPE of normal subjects. 2001. Invest Ophthalmol Vis Sci. 42:1855-66 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C19	Delori et al., Macular pigment density measured by autofluorescence spectrometry: comparison with reflectometry and heterochromatic flicker photometry. 2001. J Opt Soc Am A. 18:1212-30 (Optical Society of America, Washington, D.C., USA).
	C20	Denis et al., Advanced glycation end-products induce apoptosis of bovine retinal pericytes in culture: involvement of diacylglycerol/ceramide production and oxidative stress induction. 2002. Free Radical Biology & Medicine. 33:236-47 (Elsevier Science Inc., Amsterdam, Netherlands).
	C21	Donovan et al., Caspase-independent photoreceptor apoptosis in vivo and differential expression of apoptotic protease activating factor-1 and caspase-3 during retinal development. 2002. Cell Death and Differentiation. 9:1220-31 (Nature Publishing Group, London, England).
	C22	Draganow et al., In situ evidence for DNA fragmentation in Huntingtons disease striatum and Alzheimers disease temporal lobes. 1995. Neuroreport. 6:1053-7 (Rapid Communications of Oxford Ltd., Oxford, England).
	C23	Dunaief et al., The role of apoptosis in age-related macular degeneration. 2002. Arch Ophthalmol. 120:1435-42 (Chicago, IL, USA).
	C24	Elleder et al., Autofluorescence of melanins induced by ultraviolet radiation and near ultraviolet light. A histochemical and biochemical study. 2001. Histochem J. 33:273-81 (Kluwer Academic Publishers, Springer Verlag, Netherlands).
	C25	Gal et al., Mutations in MERTK, the human orthologue of the RCS rat retinal dystrophy gene, cause retinitis pigmentosa. 2000. Nature Genetics. 26:270-1 (Nature America Inc., New York, NY, USA).
	C26	Garcia et al., Apoptosis in adult retinal ganglion cells after axotomy. 1994. J Neurobiol. 25:431-8 (John Wiley & Sons, Inc., Hoboken, NJ, USA).
	C27	Garcia et al., Programmed cell death of retinal ganglion cells during experimental glaucoma. 1995. Exp Eye Res. 61:33-44 (Academic Press Limited, Rockville, MD, USA).
	C28	Gheili et al., Leber's hereditary optic neuropathy (LHON) pathogenic mutations induce mitochondrial-dependent apoptotic death in transmitochondrial cells incubated with galactose medium. 2003. J Biol Chem. 278:4145-50 (The American Society for Biochemistry and Molecular Biology, Inc., Rockville, MD, USA).
	C29	Goldblum et al., Prospects for relevant glaucoma models with retinal ganglion cell damage in the rodent eye. 2002. Vision Res. 42:471-8 (Elsevier Science Ltd., Bern, Switzerland).
	C30	Gordon et al., DNA damage and repair in light-induced photoreceptor degeneration. 2002. Invest Ophthalmol Vis Sci. 43:3511-21 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C31	Hao et al., Evidence for two apoptotic pathways in light-induced retinal degeneration. 2002. Nature. 32:254:60 (Nature America Inc., New York, NY, USA).
	C32	Heiduschka et al., Aurointricarboxylic acid promotes survival and regeneration of axotomized retinal ganglion cells in vivo. 2000. Neuropharmacol. 39:889-902 (Elsevier Science Ltd., Münster, Germany).
	C33	Hisatomi et al., Critical role of photoreceptor apoptosis in functional damage after retinal detachment. 2002. Curr Eye Res. 24:161-72 (Swets & Zeitlinger, Lisse, Netherlands).
	C34	Holz et al., Fundus autofluorescence and development of geographic atrophy in age-related macular degeneration. 2001. Invest Ophthalmol Vis Sci. 42:1051-6 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C35	Holz et al., Patterns of increased in vivo fundus autofluorescence in the junctional zone of geographic atrophy of the retinal pigment epithelium associated with age-related macular degeneration. 1999. Graefes Arch Clin Exp Ophthalmol. 237:145-52 (Springer-Verlag, Berlin, Germany).
	C36	Jones et al., Analysis of differentially expressed genes in retinitis pigmentosa retinas: altered expression of clusterin mRNA. 1992. FEBS Lett. 300:279-82 (Elsevier Science Publishers, Amsterdam, Netherlands).
	C37	Kaneda et al., Apoptotic DNA fragmentation and upregulation of Bax induced by transient ischemia of the rat retina. 1999. Brain Res. 815:11-20 82 (Elsevier Science Publishers, Amsterdam, Netherlands).
	C38	Katai et al., Apoptotic retinal neuronal death by ischemia-reperfusion is executed by two distinct caspase family proteases. 1999. Invest Ophthalmol Vis Sci. 40:2697-705 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C39	Kayatz et al., Oxidation causes melanin fluorescence. 2001. Investigative Ophthalmol Vis Sci. 42:241-6 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
BR	C40	Kerr et al., Apoptosis, a basic biological phenomenon with wider implications in tissue kinetics. 1972. Br J Cancer. 26:239-45 development. 2002 (Nature Publishing Group, London, England)..

Examiner Signature	<i>Barabhai Ray</i>	Date Considered	12-18-06
--------------------	---------------------	-----------------	----------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/777,423		
		Filing Date	February 12, 2004		
		First Named Inventor	Howard R. Petty		
		Art Unit	3737		
		Examiner Name	Not Yet Assigned		
Sheet	3	of	7	Attorney Docket Number	30275/39376


BR	C41	Kerrigan et al., TUNEL-positive ganglion cells in human primary open-angle glaucoma. 1997. Arch Ophthalmol. 115:1031-5 (Chicago, IL, USA).
	C42	Kidd, Proteolytic activities that mediate apoptosis. 1998. Annu Rev Physiol. 60:533-73 (Annual Reviews, Palo Alto, CA, USA).
	C43	Kindzelskii et al., Proximity oscillations of complement receptor type 4 and urokinase receptors on migrating neutrophils are linked with signal transduction/metabolic oscillations. 1997. Biophys J. 73:1777-84 (The Biophysical Society, Bethesda, MD, USA).
	C44	Kindzelskii et al., Pregnancy alters glucose-6-phosphate dehydrogenase trafficking, cell metabolism and oxidant release of maternal neutrophils. 2002. J Clin Invest. 110:1801-11 (Ann Arbor, MI, USA).
	C45	Kindzelskii et al., Apparent role of traveling metabolic waves in periodic oxidant release by living cells. 2002. Proc Natl Acad Sci USA. 99:9207-12 (Melville, NY, USA).
	C46	Kindzelskii et al., Extremely low frequency electric fields promote neutrophil extension, metabolic resonance and DNA damage during migration. 2000. Biochim Biophys Acta. 1495:90-111 (Elsevier Science Publishers, Netherlands).
	C47	Kindzelskii et al., Oscillatory pericellular proteolysis and oxidant deposition during neutrophil migration. 1998. Biophys J. 74:90-7 (The Biophysical Society, Bethesda, MD, USA).
	C48	Kowluru et al., Diabetes-induced activation of caspase-3 in retina: effect of antioxidant therapy. 2002. Free Radic Res. 36:993-9. (Taylor & Francis, Ltd., Abingdon, Oxfordshire, England).
	C49	Kunz et al., Flow cytometric detection of mitochondrial dysfunction in subpopulations of human mononuclear cells. 1997. Anal Biochem. 248:218-24 (Academic Press, Rockville, MD, USA).
	C50	Kunz et al., Functional imaging of mitochondrial redox state. 2002. Methods in Enzymology. 352:135-150 (Elsevier Science USA, Orlando, FL, USA).
	C51	Kunz et al., Quantification of the content of fluorescent flavoproteins in mitochondria from liver, kidney cortex, skeletal muscle, and brain. 1993. Biochem Med Metabolic Biol. 50:103-10. (Academic Press, Rockville, MD, USA).
	C52	Kunz et al., Contribution of different enzymes to flavoprotein fluorescence of isolated rat liver mitochondria. 1985. Biochimica et Biophysica Acta. 841:237-46 (Elsevier Science Publishers, Amsterdam, Netherlands).
	C53	Kunz et al., Functional characterization of mitochondrial oxidative phosphorylation in saponin-skinned human muscle fibers. 1993. Biochimica Biophysica Acta. 1144:48-53 46 (Elsevier Science Publishers, Amsterdam, Netherlands).
	C54	Kunz et al., Measurement of fluorescence changes of NAD(P)H and of fluorescent flavoproteins in saponin-skinned human skeletal muscle fibers. 1994. Anal Biochem. 216:322-7 (Academic Press, Rockville, MD, USA).
	C55	Kunz, Spectral properties of fluorescent flavoproteins of isolated rat liver mitochondria. 1986. FEBS Lett. 195:92-6 (Elsevier Science Publishers, Amsterdam, Netherlands).
	C56	Kurohwa et al., Expression of cell cycle-related genes in dying cells in retinal ischemic injury. 1998. Invest Ophthalmol Vis Sci. 39:610-7 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C57	Kuznetsov, et al., Functional imaging of mitochondria in saponin-permeabilized mice muscle fibers. 1998. J Cell Biol. 140:1091-9 (The Rockefeller University Press, New York, NY, USA).
	C58	La Vail, Legacy of the RCS rat: impact of a seminal study on retinal cell biology and retinal degenerative diseases. 2001. Prog Brain Res. 131:617-27 (Elsevier Science BV, Amsterdam, Netherlands).
	C59	Lam et al., N-methyl-D-aspartate (NMDA)-induced apoptosis in rat retina. 1999. Invest Ophthalmol Vis Sci. 40:2391-7 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C60	Lam et al., Apoptosis and caspases after ischemia-reperfusion injury in rat retina. 1999. Invest Ophthalmol Vis Sci. 40:967-975 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
	C61	Li W et al., Altered mRNA levels of antioxidant enzymes in pre-apoptotic pericytes from human diabetic retinas. 1999. Cell Mol Biol. 45:59-68 (France).
	C62	Liang et al., Imaging neutrophil activation: analysis of the translocation and utilization of NAD(P)H-associated autofluorescence during antibody-dependent target oxidation. 1992. J Cell Physiol. 152:145-56 (Wiley-Liss, Inc., Hoboken, NJ, USA).
	C63	Lipton et al., Excitatory amino acids as a final common pathway for neurologic disorders. 1994. N Engl J Med. 330:613-622 (Boston, MA, USA).
	C64	Lois, et al., Quantitative evaluation of fundus autofluorescence imaged "in vivo" in eyes with retinal disease. 2000. Br J Ophthalmol. 84:741-5 (Bristol, England).
	C65	Lois, et al., Fundus autofluorescence in patients with age-related macular degeneration and high risk of visual loss. 2002. Am J Ophthalmol. 133:341-9 (Elsevier Science Inc., USA, Orlando, FL, USA).
	C66	Lolley et al., Linkage of photoreceptor degeneration by apoptosis with inherited defect in phototransduction. 1994. Invest Ophthalmol Vis Sci. 35:358-62 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).
BR	C67	Marmorstein et al., Spectral profiling of autofluorescence associated with lipofuscin, Bruch's membrane, and sup-RPE deposits in normal and AMD eyes. 2002. Investigative Ophthalmol Vis Sci. 43:2435-41 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).

Examiner Signature	<i>Laintha Key</i>	Date Considered	12-18-06
--------------------	--------------------	-----------------	----------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>		Complete If Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/777,423</td> </tr> <tr> <td>Filing Date</td> <td>February 12, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Howard R. Petty</td> </tr> <tr> <td>Art Unit</td> <td>3737</td> </tr> <tr> <td>Examiner Name</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>30275/39376</td> </tr> </table>		Application Number	10/777,423	Filing Date	February 12, 2004	First Named Inventor	Howard R. Petty	Art Unit	3737	Examiner Name	Not Yet Assigned	Attorney Docket Number	30275/39376
Application Number	10/777,423														
Filing Date	February 12, 2004														
First Named Inventor	Howard R. Petty														
Art Unit	3737														
Examiner Name	Not Yet Assigned														
Attorney Docket Number	30275/39376														
Sheet	4	of	7												

BR		C68	Marsden et al., Control of apoptosis in the immune system: Bcl-2, BH3-only proteins and more. 2003. Annu Rev Immunol. 21:71-105 (Annual Reviews, Palo Alto, CA, USA).	
		C69	Masters, Noninvasive corneal redox fluorometry. 1984. Curr Topics Eye Res. 4:139-200 (Academic Press, Inc., USA).	
		C70	McKinnon, et al., Caspase activation and amyloid precursor protein cleavage in rat ocular hypertension. 2002. Invest Ophthalmol Vis Sci. 43:1077-87 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
		C71	Mittag, et al. Retinal damage after 3 to 4 months of elevated intraocular pressure in a rat glaucoma model. 2000. Invest Ophthalmol Vis Sci. 41:3451-9 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
		C72	Mizutani et al. Accelerated death of retinal microvascular cells in human and experimental diabetic retinopathy. 1996. J Clin Invest. 97:2883-90 (Ann Arbor, MI, USA).	
		C73	Mohr et al., Caspase activation in retinas of diabetic and galactosemic mice and diabetic patients. 2002. Diabetes. 51:1172-9 (The American Diabetes Association, Alexandria, VA, USA).	
		C74	Mori et al., Changes in corneal and lens autofluorescence and blood glucose levels in diabetics: parameters of blood glucose control. 1997. Curr Eye Res. 16:534-8 (Oxford University Press, Oxford, England).	
		C75	Naskar et al., Detection of early neuron degeneration and accompanying microglial responses in the retina of a rat model of glaucoma. 2002. Invest Ophthalmol Vis Sci. 43:2962-8. (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
		C76	Newell, Ophthalmology: Principles and Concepts. 1982. (C.V.Mosby Co., St. Louis., MO, USA).	
		C77	Nickells, Apoptosis of retinal ganglion cells in glaucoma: an update of the molecular pathways involved in cell death. 1999. Surv Ophthalmol. 43:S151-S161 (Elsevier Science Inc., Orlando, FL, USA).	
		C78	Nijhawan et al., Apoptosis in neural development and disease. 2000. Annu Rev Neurosci. 23:73-87 (Annual Reviews, Palo Alto, CA, USA).	
		C79	Olsen et al., A model of the oscillatory metabolism of activated neutrophils. 2003. Biophys J. 84:69-81 (The Biophysical Society, Bethesda, MD, USA).	
		C80	Oppenheim, Cell death during development of the nervous system. 1991. Annu Rev Neurosci. 14:453-501 (Annual Reviews, Palo Alto, CA, USA).	
		C81	O'Rourke, Oscillations of membrane current and excitability driven by metabolic oscillations in heart cells. 1994. Science. 265:962-6 (Washington, D.C., USA).	
		C82	Oshitani, The role of c-fos in cell death and regeneration of retinal ganglion cells. 2002. Invest Ophthalmol Vis Sci. 43:2442-9 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
		C83	Petty et al., High-speed imaging of sustained metabolic target patterns in living neutrophils during adherence. 2000. J Phys Chem B 104:10952-55 (American Chemical Society, Washington, D.C., USA).	
		C84	Petty et al., Dissipative metabolic patterns respond during neutrophil transmembrane signaling. 2001. Proc Natl Acad Sci USA. 98:3145-9. (Washington, D.C., USA).	
		C85	Petty et al., Imaging sustained dissipative patterns in the metabolism of individual living cells. 2000. Physical Rev Lett. 84:2754-7 (The American Physical Society, College Park, MD, USA).	
		C86	Petty et al., Neutrophil oscillations: temporal and spatiotemporal aspects of cell behavior. 2001. Immunologic Res. 23:125-34 (Humana Press Inc., Totowa, NJ, USA).	
		C87	Petty et al., Oscillatory signals in migrating neutrophils: effects of time-varying chemical and electrical fields. 2000. In: Self-Organized Biological Dynamics and Nonlinear Control by External Stimuli, pp. 173-92 (J. Walleczek, ed., Cambridge University Press, Cambridge, England).	
		C88	Podesta et al., Bax is increased in the retina of diabetic subjects and is associated with pericyte apoptosis in vivo and in vitro. 2000. Am J Pathol. 156:1025-32 (American Society for Investigative Pathology, Bethesda, MD, USA).	
		C89	Portera-Cailliau, Apoptotic photoreceptor cell death in mouse model of retinitis pigmentosa. 1994. Proc Natl Acad Sci USA. 91:974-8 (PNAS, New York, NY, USA).	
		C90	Quigley et al., Retinal ganglion cell death in experimental glaucoma and after axotomy occurs by apoptosis. 1995. Invest Ophthalmol Vis Sci. 36:774-86 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
		C91	Romashko et al., Subcellular metabolic transients and mitochondrial redox waves in heart muscle. 1998. Proc Natl Acad Sci USA. 95:1818-23 (PNAS, New York, NY, USA).	
		C92	Romeo et al., Activation of nuclear factor- κ B induced by diabetes and high glucose regulates a proapoptotic program in retinal pericytes. 2002. Diabetes. 51:2241-8 (The American Diabetes Association, Alexandria, VA, USA).	
		C93	Rosenbaum et al., Retinal ischemia leads to apoptosis which is ameliorated by aurintricarboxylic acid. 1997. Vision Res. 37:3445-51 (Elsevier Science Ltd., GB).	
		C94	Rosenpire et al., Cutting edge: febrile temperatures dramatically enhance local oxidant release by adherent neutrophils in response to lipopolysaccharide. 2002. J Immunol. 169:5396-400 (The American Association of Immunologists, Inc., Rockville, MD, USA).	

Examiner Signature		Date Considered	12-18-06
--------------------	-------------------------------------------------------------------------------------	-----------------	----------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/777,423		
		Filing Date	February 12, 2004		
		First Named Inventor	Howard R. Petty		
		Art Unit	3737		
		Examiner Name	Not Yet Assigned		
Sheet	5	of	7	Attorney Docket Number	30275/39376

BR	C95	Rosenspire et al., Interferon- γ and sinusoidal electric fields signal by modulating NAD(P)H oscillations in polarized neutrophils. 2000. Biophys J. 79:3001-8 (The Biophysical Society, Bethesda, MD, USA).	
	C96	Rosenspire et al., Pulsed DC electric fields couple to natural NAD(P)H oscillations in HT1080 fibrosarcoma cells. 2001. J Cell Sci. 114:1515-26 (The Company of Biologists Ltd., Cambridge, England).	
	C97	Roth et al., Measurement of purine nucleoside concentration in the intact rat retina. 1996. J Neurosci Meth. 68:87-90 (Elsevier Science, BV, Amsterdam, Netherlands).	
	C98	Roth et al., Concentrations of adenosine and its metabolites in the rat retina/choroids during reperfusion after ischemia. 1997. Curr Eye Res. 16:875-885 (Oxford University Press, Oxford, England).	
	C99	Rudin et al., Apoptosis and disease; regulation and clinical relevance of programmed cell death. 1997. Annu Rev Med. 48:267-81 (Annual Reviews Inc., Palo Alto, CA, USA).	
	C100	Sadun et al., Leber's hereditary optic neuropathy differentially affects smaller axons in the optic nerve. 2000. Trans Am Ophthalmol Soc. 98:223-32 (The American Ophthalmological Society, San Francisco, CA, USA).	
	C101	Schachat et al., Vol. 2. 1989. (C.V. Mosby Co., St. Louis, MO, USA).	
	C101a	Information sheet for C101	
	C102	Schmitz-Valckenberg et al., Analysis of digital scanning laser ophthalmoscopy fundus autofluorescence images of geographic atrophy in advanced age-related macular degeneration. 2002. Graefes Arch Clin Exp Ophthalmol. 240:73-8 (Springer-Verlag, Berlin, Germany).	
	C103	Scholz et al., Flavin and pyridine nucleotide oxidation-reduction changes in perfused rat liver. 1. Anoxia and subcellular localization of fluorescent flavoproteins. 1969. J Biol Chem. 244:2317-24 (The American Society for Biochemistry and Molecular Biology, Inc., Rockville, MD, USA).	
	C104	Schweitzer et al., Die altersabhängige makulopathie. Vergleichende untersuchungen zwischen patienten, deren kindern und augengesunden. 2000. Ophthalmologie. 97:84-90 (Springer-Verlag, Heidelberg, Germany). ENGLISH LANGUAGE SUMMARY ATTACHED.	
	C105	Seme et al., Differential recovery of retinal function after mitochondrial inhibition by methanol intoxication. Invest Ophthalmol Vis Sci. 2001. 42:834-41 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
	C106	Shilino et al., Three-dimensional redox image of the normal gerbil brain. 1999. Neurosci. 91:1581-5 (Elsevier Science Ltd., GB).	
	C107	Shimazaki et al., Distribution of autofluorescence in the rabbit corneal epithelium. 1993. Ophthalmic Res. 25:220-6 (S. Karger AG, Basel, Switzerland).	
	C108	Shirvan et al., Anti-semaphorin 3A antibodies rescue retinal ganglion cells from cell death following optic nerve axotomy. 2002. J Biol Chem. 277:49799-807 (The American Society for Biochemistry and Molecular Biology, Inc., Rockville, MD, USA).	
	C109	Solbach et al., Imaging of retinal autofluorescence in patients with age-related macular degeneration. 1997. Retina. 17:385-9 (Lippincott, Williams & Wilkins, Philadelphia, PA, USA).	
	C110	Strasser et al., Apoptosis Signaling. 2000. Annu Rev Biochem. 69:217-45 (Annual Reviews, Palo Alto, CA, USA).	
	C111	Tatton et al., Maintaining mitochondrial membrane impermeability: an opportunity for new therapy in glaucoma. 2001. Surv Ophthalmol. 45:S277-83 (Elsevier Science Inc., Amsterdam, Netherlands).	
	C112	Tatton et al., Apoptotic mechanisms in neurodegeneration: possible relevance to glaucoma. 1999. Eur J Ophthalmol. 9 Suppl 1:S22-9 (Wichtig Editore, Milan, IT).	
	C113	Thanos et al., In vivo FM: using conventional fluorescence microscopy to monitor retinal neuronal death in vivo. 2002. Trends Neurosci. 25:441-4 (Elsevier Science Ltd., Germany).	
	C114	Travis, Human genetics '98: Apoptosis mechanisms of cell death in the inherited retinal degenerations. 1998. Am J Hum Genet. 62:503-8 (The American Society of Human Genetics, Bethesda, MD, USA).	
	C115	Troost et al., Apoptosis in amyotrophic lateral sclerosis is not restricted to motor neurons. Bcl-2 expression is increased in unaffected post-central gyrus. 1995. Neuropathol Appl Neurobiol. 21:498-504 (Blackwell Science Ltd., Oxford, England).	
	C116	Tsubota et al., Noninvasive metabolic analysis of preserved rabbit cornea. 1988. Arch Ophthalmol. 106:1713-7 (Brooklyn, NY, USA).	
	C117	Tsubota et al., Noninvasive measurements of pyridine nucleotide and flavoprotein in the lens. 1987. Invest Ophthalmol Vis Sci. 28:785-9 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
	C118	Tsubota et al., Metabolic changes in the corneal epithelium resulting from hard contact lens wear. 1992. Cornea. 11:121-6 (Raven Press, Ltd., NY, USA).	
	C119	Vielhaber et al., Mitochondrial DNA abnormalities in skeletal muscle of patients with sporadic amyotrophic lateral sclerosis. 2000. Brain. 123:1339-48 (Oxford University Press, Oxford, England).	
	C120	Von Ruckmann et al., Distribution of pigment epithelium autofluorescence in retinal disease state recorded in vivo and its change over time. 1999. Graefes Arch Clin Exp Ophthalmol. 237:1-9 (Springer-Verlag, Berlin, Germany).	
	C121	Von Ruckmann et al., In vivo fundus autofluorescence in macular dystrophies. 1997. Arch Ophthalmol. 115:609-15 (Brooklyn, NY, USA).	
BR	C122	Von Ruckmann et al., Abnormalities of fundus autofluorescence in central serous retinopathy. 2002. Am J	
Examiner Signature	Kathleen Day		Date Considered 12-18-06

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete If Known			
		Application Number	10/777,423		
		Filing Date	February 12, 2004		
		First Named Inventor	Howard R. Petty		
		Art Unit	3737		
		Examiner Name	Not Yet Assigned		
Sheet	6	of	7	Attorney Docket Number	30275/39376

		Ophthalmol 133:780-6 (Elsevier Science Inc., Amsterdam, Netherlands).	
BR	C123	Wiedemann et al., Impairment of mitochondrial function in skeletal muscle of patients with amyotrophic lateral sclerosis. 1998. J Neurol Sci. 156:65-72 (Elsevier Science BV, Amsterdam, Netherlands).	
	C124	Wilson et al., Argon laser photocoagulation-induced modification of gene expression in the retina. 2003. Invest Ophthalmol Vis Sci. 44:1426-34 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA)	
	C125	Worth et al., Mercury inhibition of neutrophil activity: evidence of aberrant cellular signaling and incoherent cellular metabolism. 2001. Scand. J Immunol. 53:49-55 (Blackwell Publishing, Oxford, England).	
	C126	Xu et al., Apoptosis in human retinal degenerations. 1998. Trans Am Ophthalmol Soc. 94:411-30 (The American Ophthalmological Society, San Francisco, CA, USA).	
	C127	Zacks et al., Caspase activation in an experimental model of retinal detachment. 2003. Invest Ophthalmol Vis Sci. 44:1262-7 (Association for Research in Vision and Ophthalmology, Rockville, MD, USA).	
	C128	Zhang et al., Apoptosis in the retina during MCMV retinitis in immunosuppressed BALB/c mice. 2002. J Clin Virol. 25:S137-47 (Elsevier Science BV, Amsterdam, Netherlands).	
	C129	Zhang et al., Mouse model of optic neuropathy caused by mitochondrial complex I dysfunction. 2002. Neurosci Lett. 326:97-100 (Elsevier Science Ireland, Ltd., Dublin, Ireland).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Luisa L. Ray</i>	Date Considered	12-18-06
-----------------------	---------------------	--------------------	----------